1FW/1620

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Scott D. Edmondson, et ap

MAR 1 9 2006 W

Serial No. 10/560,771

Filed: December 13, 2005

For: CYCLOHEXYLGLYCINE DERIVATIVES AS

DIPEPTIDYL INHIBITORS FOR THE TREATMENT OR

PREVENTION OF DIABETES

Art Unit:

Examiner:

To Be Assigned

To Be Assigned

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC

By Mux (Mor Da

_ Date <u>3/9/200</u>6

PATENT Case No. 21443P



INFORMATION DISCLOSURE STATEMENT

5. Pursuan 2018. A. 1.98(d), copies of references listed on the attached form that were submitted to or cited

by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

	RELATED APPLICATION			
U. S. SERIAL NUMBER	FILING DATE	MERCK CASE		
10/540,283	June 20, 2005	21304YP		
10/537,476	June 3, 2005	21288YP		
10/530,215	April 4, 2005	21239YP		
10/542,694	July 19, 2005	21329YP		
10/556,805	November 14, 2005	21404P		
10/558,931	November 30, 2005	21431P		

If th	this is inconvenient, additional copies will be submitted upon request.	
(6. In accordance with 37 C.F.R. 1.97, (check one)	
\checkmark	the attached information is filed within three months of the filing date o	f the captioned case.
	the attached information is filed more than three months after the filing Office Action on the merits.	date but prior to the mailing of a first
	the attached information is filed before the mailing of a first Office action examination under §1.114.	on after the filing of a request for continued
	the attached information is being filed more than three months after the Office Action on the merits, but before the mailing date of a Final Actio otherwise closes prosecution in the application. The enclosed authorize Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p).	n, Notice of Allowance, or an action that
	each item of information contained in this Information Disclosure State from a foreign patent office in a counterpart foreign application not most Statement.	ment was first cited in any communication re than three months prior to the filing of this
	each item of information contained in the information disclosure staten a foreign patent office in a counterpart application and this communica designated in §1.56(c) more than thirty days prior to the filing of the int	ntion was not received by any individual
	no item of information contained in this Information Disclosure Statemer foreign patent office in a counterpart foreign application, and, to the kn after making reasonable inquiry, was known to any individual designate months prior to the filing of this Statement.	owledge of the person signing the certification
	Res	spectfully submitted,
		Theye & Owello
	By:	Philippe L. Durette
	Atto	orney For Applicant(s)
	•	g. No. <u>35,125</u>
		RCK & CO., INC. ent Dept., RY60-30
		D. Box 2000
		nway, N.J. 07065-0907
	•	2)594- <u>4568</u>
	Dai	e: March 9, 2006

Substitute for form 1449A/PTO		COMPLETE IF KNOWN
INFORMATION DISCLOSURE	Application Number	10/560,771
OSTATEMENT BY APPLICANT	Filing Date	December 13, 2005
CSTATEMENT BY AFFLICANT	First Named Inventor	Scott D. Edmondson, et al.
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\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Examiner Name	
Sheet RADEMARY 1 of 5	Attorney Docket Number	21443P

			U.S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	1	6,699,871 B2		Edmondson et al.	03/02/2004
	2	6,011,155		Villhauer	01/04/2000
	3	6,166,063		Villhauer	12/26/2000
	4	5,939,560		Jenkins et al.	08/17/1999
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	7	4,386,090		Moinet et al	05/31/1983
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	8	PCT	WO 03/082817 A2		MERCK & CO., INC.	10/09/2003			
	9	PCT	WO 03/000180 A2		MERCK & CO., INC.	01/03/2003			
	10	РСТ	WO 03/000181 A2		MERCK & CO., INC.	01/03/2003			
	11	РСТ	WO 03/000181 A3		MERCK & CO., INC.	01/03/2003			
	12	РСТ	WO 02/076450 A1		MERCK & CO., INC.	10/03/2002			
	13	РСТ	WO 2004/007468 A1		MERCK & CO., INC.	01/22/2004			
	14	РСТ	WO 2004/032836 A2		MERCK & CO., INC.	04/22/2004			
	15	РСТ	WO 2004/050022 A2		MERCK & CO., INC.	06/17/2004			
	16	PCT	WO 2004/058266 A1		MERCK & CO., INC.	07/15/2004			
	17	PCT	WO 2004/064778 A2		MERCK & CO., INC.	08/05/2004			

Examiner Signature	Date Considered

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTC)			COMPLETE IF KNOWN
INFORMATIO	N DIS	CLOSURE	Application Number	10/560,771
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U.S. PATENT DOCUMENTS								
Examiner Initials*	Cite No.	U.S. Patent Docume		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY			

			FOREIGN	PATEN	Γ DOCUMENTS	
Examiner Initials*	Cite No.	Office	Foreign Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	18	PCT	WO 2004/069162 A2		MERCK & CO., INC.	08/19/2004
	19	PCT	WO 02/02560 A2		NOVO NORDISK A/S	01/10/2002
	20	PCT	WO 01/96295 A2		NOVARTIS AG	12/20/2001
	21	PCT	WO 01/96295 A3		NOVARTIS AG	12/20/2001
	22	PCT	WO 01/34594 A1		Guilford Pharmaceuticals, Inc.	05/17/2001
	23	PCT	WO 00/34241		NOVARTIS AG	06/15/2000
	24	PCT	WO 98/19998 A2		NOVARTIS AG	05/14/1998
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	26	PCT	WO 97/40832		Hansknoll-Institut Fur Naturstoff-Forschung E.V.	11/06/1997
	27	PCT	WO 03/000180 A3		MERCK & CO., INC.	01/03/2003

Examiner Signature Date Considered

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sul	bstitute for form 1449A/PTO				COMPLETE IF KNOWN
IJ	NEORMATION I	OISC	CLOSURE	Application Number	10/560,771
(a)	TATEMENT BY	A DI	DI ICANIT	Filing Date	December 13, 2005
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Sheet	3	of	5	Attorney Docket Number	21443P

			U.S. PATE	NT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Docum		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
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			FOREIG	GN PATEN	T DOCUMENTS	
Examiner Initials*	Examiner Initials* Cite No. Office Number		Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	
	28	PCT	WO 02/02560	A3	NOVO NORDISK	01/10/2002
	29	PCT	WO 01/42262		AKZO NOBEL N.V.	06/14/2001
	30	PCT	WO 2004/043940		MERCK & CO., INC.	05/27/2004
	31	PCT	WO 2004/007468		MERCK & CO., INC.	01/22/2004
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	33	РСТ	WO 2004/112701	A2	MERCK & CO., INC.	12/29/2004
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	35	PCT	WO 2005/011581	A2	MERCK & CO., INC.	02/10/2005
	36	PCT	WO 2005/044195	A2	MERCK & CO., INC.	05/19/2005
	37	PCT	WO 2005/002530	A2	SMITHKLINE BEECHAM CORP.	01/09/2003

Examiner Signature Date Considered

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Substitute for form 1449A/PTO	COMPLETE IF KNOWN			
INFORMATION DISCLOSURE	Application Number	10/560,771		
CON FEMALENT DV ADDI ICANT	Filing Date	December 13, 2005		
SYATEMENT BY APPLICANT	First Named Inventor	Scott D. Edmondson, et al.		
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Sheet Sheet 4 of 5	Attorney Docket Number	21443P		

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.	U.S. Patent Docume Number		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY		

	FOREIGN PATENT DOCUMENTS							
Examiner	Cite No.	Foreign Patent Document Kind			Name of Patentee or Applicant	Date of Publication of Cited Document		
Initials*		Office	: Number	Code (if known)	of Cited Document	MM-DD-YYYY		
	38	PCT	WO 2005/056003	A1	GRAFFINITY PHARMACEUTICALS AG	06/23/2005		
	39	PCT	WO 2005/056013	A1	GRAFFINITY PHARMACEUTICALS AG	06/23/2005		
	40	PCT	WO 2005/108382	A1	MERCK & CO., INC.	11/17/2005		
	41	PCT	WO2005/116029	Al	MERCK & CO., INC.	12/08/2005		
	42	PCT	WO 2005/123685	Al	ASTRAZENECA AB	12/29/2005		
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Examiner Signature	Date Considered	
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^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Substitute for form 1449B/PTO	_		COMPLETE IF KNOWN			
	INFORMATION I	DISC	LOSURE	Application Number	10/560,771		
	STATEMENT BY	A DD	LICANT	Filing Date	December 13, 2005		
/	- 1	AFF.	LICANI	First Named Inventor	Scott D. Edmondson, et al.		
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She	TRADE	of	5	Attorney Docket Number	21443P		

	NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.						
	43	J. J. Holst, "Treatment of Type 2 Diabetes Mellitus with Agonists of the GLP-1 Receptor or DPP-IV Inhibitors", Expert Opin. Emerg. Drugs, Vol. 9(1) pp. 155-166(2004).						
	44	C. F. Deacon, et al., "Inhibitors of dipeptidyl peptidase IV: A Novel Approach for the Prevention and Treatment of Type 2 Diabetes?", Expert Opin. Investig. Drugs, Vol. 13(9) pp. 1091-1102(2004).						
	45	K. Augustyns et al., "Dipeptidyl Peptidase IV Inhibitors as New Therapeutic Agents for the Treatment of Type 2 Diabetes", Expert Opin. Ther. Patents, Vol. 13(4), pp. 499-510(2003).						
	46	Novartis AG: WO0034241, "Novel N-substituted-2-Cyanopyrrolidines as Potent Inhibitors of Dipeptidyl Peptidase IV in the Treatment of Non-Insulin-Dependent Diabetes Mellitus", Exp. Opin. Ther. Patents, Vol. 10(12), pp. 1937-1942 (2000).						
	47	O. J. Orucker, "Therapeutic potential of dipeptidyl peptidase IV inhibitors for the treatment of type 2 diabetes", Exp. Opin Invest. Drugs, Vol.12, pp. 87-100 (2004).						
	48	T. P. Vahl & D. A. D'Alessio, "Gut peptides in the treatment of diabetes mellitus" Exp. Opin. Invest. Drugs, Vol. 13, pp. 177-188 (2004).						
	49	L. B. Knudsen, "Glucagon-like peptide-1: The Basis of a New Class of Treatment for Type 2 Diabetes", J. Med. Chem, Vol. 47, pp. 4128-4134 (2004).						
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	51	J. J. Holst and C. F. Deacon, "Glucagon-like peptide 1 and inhibitors of dipeptidyl peptidase IV in the treatment of type 2 diabetes mellitus", Curr. Opin Pharmacology, Vol. 4, pp. 589-596 (2004).						
	52	C. F. Deacon, "Perspectives in Diabetes - Therapeutic Strategies Based on Glucagon-Like Peptide 1", Diabetes, Vol. 53, pp. 2181-2189 (2004).						
	53	K. Augustyns, et al., "Inhibitors of proline-specific dipeptidyl peptidase: DPP IV inhibitors as a novel approach for the treatment of Type 2 diabetes", Expert Opin. Ther. Patents, Vol. 15(10), pp. 1387-1407 (2005).						
	54	Hans-Ulrich Demuth, et al., " Type 2 diabetes - Therapy with dipetidyl peptidase IV inhibitors", Biochimica et Biophysica Acta, Vol. 1751, pp., 33-44 (2005).						
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